



State of Utah
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DIVISION OF OIL, GAS AND MINING

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DOGM
MINERALS PROGRAM
FILE COPY

April 18, 1994

TO: Wayne Hedberg, Permit Supervisor

FROM: Lynn Kunzler, Reclamation Specialist *LK*

RE: Use of Manure to Replace Hay for Escalante tailings
pond reclamation and seeding schedule, Hecla Mining
Company, M/021/004.

I have reviewed Hecla's proposal submitted April 8, 1994 for the referenced change in their reclamation plan. Assuming that the source of the manure is from a dairy or cattle feedlot, the proposed substitution is acceptable. However, Hecla needs to confirm the source of the manure (sources other than those assumed could cause problems for Revegetation) and they should provide an analysis of the manure from a grab sample.

I am in full agreement with the later seeding schedule (Ideally, seeding should be done as late in the fall as possible).

Recommended Analysis of Manure

pH
EC (conductivity)
Cation Exchange Capacity
Carbon:Nitrogen ratio
Nitrate nitrogen
Phosphorus
Potassium

